

[EFM DATA DECODING METHOD FOR OPTICAL DISK SYSTEM]

Abstract

An eight-to-fourteen modulation (EFM) data decoding method for an optical disk system is provided. The method includes the following steps: extracting 14-bit data from a serial data; looking up a modified EFM decoding table for converting the 14-bit data into a corresponding 8-bit data; and outputting the 8-bit data. The modified EFM decoding table includes transformation entries for converting 14-bit data non-conform to the standard EFM modulation rule into the most probable 8-bit one. This data-accessing reliability is effectively upgraded in the embodiment by specially processing those non-conformable 14-bit data.